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Notice of Allowability	Application No.	Applicant(s)	
	10/044,154	ERYUREK, EVREN	
	Examiner	Art Unit	
	John H. Le	2863	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Applicant's amendment filed 04/25/2005.
2. ☒ The allowed claim(s) is/are 54-70.
3. ☒ The drawings filed on 10 January 2002 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____ | 7. <input type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |

Response to Amendment

1. Applicant's amendment filed 04/25/2005 has been entered and carefully considered.

Claims 61 and 63 have been amended.

Claims 1-53 have been cancelled.

Claims 64-70 have been added.

Reasons for Allowance

2. Claims 54-70 are allowed.
3. The following is a statement of reasons for the indication of allowable subject matter:

Please see the previous office action and applicant's argument filed on 07/24/2003, 02/05/2004, 08/05/2004, 12/20/2004 and 04/25/2005.

In combination with other limitations of the claims, the cited prior arts fails to teach a monitoring routine adapted to be executed on the processor that uses the one or more operating parameters and the characteristic curve to estimate the presence of cavitation within the device and wherein the monitoring routine is adapted to determine a net positive suction head available in the device and compare the net positive suction head available with a net positive suction head required associated with the device, as recited in claim(s) 54.

In combination with other limitations of the claims, the cited prior arts fails to teach a monitoring routine adapted to be executed on the processor that uses the one or more operating parameters and the characteristic curve to estimate the presence of

cavitation within the device and wherein the characteristic curve defines a net positive suction pressure required for the device, as recited in claim(s) 56.

In combination with other limitations of the claims, the cited prior arts fails to teach a monitoring routine adapted to be executed on the processor that uses the one or more operating parameters and the characteristic curve to estimate the presence of cavitation within the device and wherein the characteristic curve is a voltage-current characteristic curve for the device, wherein the one or more operating parameters are associated with electrical operating parameters of the device and wherein the monitoring routine is adapted to use the electrical operating parameters of the device to detect whether the device is operating in accordance with the voltage-current characteristic curve of the device, as recited in claim(s) 57.

In combination with other limitations of the claims, the cited prior arts fails to teach a monitoring routine stored in the memory and adapted to be executed on the processor to use the one or more operating parameters to estimate the presence of cavitation in the process plant; wherein the monitoring routine is adapted to use the operating parameters to detect a degradation in the operational performance of a device in the process plant to estimate the presence of cavitation within the process plant, a characteristic curve associated with the device stored in the memory, and the monitoring routine is adapted to detect the degradation in performance based on the characteristic curve; and wherein the characteristic curve is a voltage-current curve as recited in claim(s) 61.

In combination with other limitations of the claims, the cited prior arts fails to teach a monitoring routine stored in the memory and adapted to be executed on the processor to use the one or more operating parameters to estimate the presence of cavitation in the process plant; wherein the monitoring routine is adapted to use the operating parameters to detect a degradation in the operational performance of a device in the process plant to estimate the presence of cavitation within the process plant, a characteristic curve associated with the device stored in the memory, and the monitoring routine is adapted to detect the degradation in performance based on the characteristic curve; and wherein the characteristic curve defines a net positive suction head required for device as recited in claim(s) 62.

In combination with other limitations of the claims, the cited prior arts fails to teach automatically detecting the presence of cavitation within the device based an the one or more collected operating parameters wherein the step of automatically detecting includes the step of using the characteristic curve and alerting an operator to the presence of cavitation within the device; wherein the step of automatically detecting includes the steps of determining a net positive suction head available in the device and comparing the net positive suction head available with a net positive suction head required for the device as recited in claim(s) 64.

In combination with other limitations of the claims, the cited prior arts fails to teach automatically detecting the presence of cavitation within the device based an the one or more collected operating parameters wherein the step of automatically detecting includes the step of using the characteristic curve and alerting an operator to the

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presence of cavitation within the device; wherein the step of storing a characteristic curve includes the step of storing a characteristic curve that defines a net positive suction head required for the device as recited in claim(s) 66.

In combination with other limitations of the claims, the cited prior arts fails to teach automatically detecting the presence of cavitation within the device based on the one or more collected operating parameters wherein the step of automatically detecting includes the step of using the characteristic curve and alerting an operator to the presence of cavitation within the device; wherein the step of storing the characteristic curve includes the step of storing a voltage-current characteristic curve for the device, wherein the step of collecting includes the step of collecting one or more electrical operating parameters of the device and wherein the step of automatically detecting includes the step of using the electrical operating parameters of the device to detect whether the device is operating in accordance with the voltage-current characteristic curve of the device as recited in claim(s) 67.

In combination with other limitations of the claims, the cited prior arts fails to teach a monitoring routine stored in the memory and adapted to be executed on the processor to use the one or more operating parameters to estimate the presence of cavitation within the device; wherein a characteristic curve associated with the device is stored in the memory, and the monitoring routine is adapted to detect the degradation in performance based on the characteristic curve and to alert an operator to the presence of cavitation within the device and wherein the characteristic curve is a voltage-current curve as recited in claim(s) 68.

In combination with other limitations of the claims, the cited prior arts fails to teach a monitoring routine stored in the memory and adapted to be executed on the processor to use the one or more operating parameters to estimate the presence of cavitation within the device; wherein a characteristic curve associated with the device is stored in the memory, and the monitoring routine is adapted to detect the degradation in performance based on the characteristic curve and to alert an operator to the presence of cavitation within the device and wherein the characteristic curve defines a net positive suction head required for the device as recited in claim(s) 69.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Contact Information

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to John H Le whose telephone number is 571-272-2275. The examiner can normally be reached on 8:00 - 4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John E Barlow can be reached on 571-272-2269. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

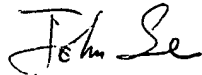
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Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should

you have questions on access to the Private PAIR system, contact the Electronic

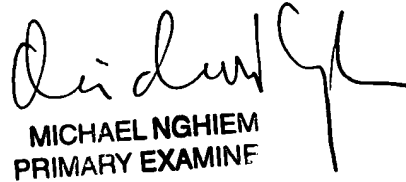
Business Center (EBC) at 866-217-9197 (toll-free).



John H. Le

Patent Examiner-Group 2863

May 18, 2005



MICHAEL NGHIEM
PRIMARY EXAMINE

5/23/05